

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number
WO 2004/089353 A3

(51) International Patent Classification⁷: **A61K 31/16**,
A61P 25/16

(21) International Application Number:
PCT/IB2004/001408

(22) International Filing Date: 8 April 2004 (08.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/462,205 11 April 2003 (11.04.2003) US

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:
US 60/462,205 (CIP)
Filed on 11 April 2003 (11.04.2003)

(71) Applicant (for all designated States except US):
NEWRON PHARMACEUTICALS, INC. [IT/IT];
Via Ludovico Ariosto, 21, I-20091 Bresso (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RUGGERO**,
Fariello [IT/IT]; Via della Vittoria, 22, I-21016 Luino
(IT). **CATTANEO, Carlo** [IT/IT]; Via C. Armellini,
31, I-20161 Milano (IT). **SALVATI, Patricia** [IT/IT];
Via Valera, 16/c, I-20020 Arese (IT). **BENATTI, Luca**
[IT/IT]; Via della Repubblica, 43, I-20093 S. Maurizio al
Lambro (IT).

(74) Agent: **CRUMP, Julian, Richard, John**; Mintz Levin
Cohn Ferris Glovsky & Popeo Intellectual Property LLP,
The Rectory, 9 Ironmonger Lane, London EC2V 8EY
(GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
16 December 2004

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHODS FOR TREATMENT OF PARKINSON'S DISEASE

(57) Abstract: New uses of safinamide, safinamide derivatives and MAO-B inhibitors in novel types of treatment for Parkinson's Disease are described. More specifically, the invention relates to methods for treating Parkinson's Disease through the administration of safinamide, a safinamide derivative, or a MAO-B inhibitor, in combination with other Parkinson's Disease agents or treatments, such as levodopa/PDI or dopamine agonists.



WO 2004/089353 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/001408

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/16 A61P25/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ANONYMOUS: "Newron Releases Positive Preliminary Phase II Data for Salfinamide in Parkinson's Disease" PRESS RELEASE OF 03.01.03, 'Online! XP002290820 Retrieved from the Internet: <URL:http://www.newron.com/press.asp?Action=news&intNewsID=1> 'retrieved on 2004-08-01! the whole document	1-56
X	US 5 391 577 A (DOSTERT PHILIPPE ET AL) 21 February 1995 (1995-02-21) column 5, line 63 -column 10, line 34; table 1 --- -/--	1-59



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

2 August 2004

Date of mailing of the international search report

19/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Cattell, James

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/001408

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 400 495 A (ERBA CARLO SPA) 5 December 1990 (1990-12-05) page 9, line 17; table 1 -----	1-59
X	US 5 945 454 A (AMICI RAFFAELLA ET AL) 31 August 1999 (1999-08-31) column 4, line 34 -column 7, line 54 -----	1-59

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/001408

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5391577	A	21-02-1995	US 5502079 A	26-03-1996
			AT 96775 T	15-11-1993
			AU 645752 B2	27-01-1994
			AU 5729990 A	18-12-1990
			CA 2033190 A1	26-11-1990
			CN 1047496 A ,B	05-12-1990
			CZ 9002520 A3	12-06-1996
			DE 69004337 D1	09-12-1993
			DE 69004337 T2	24-02-1994
			DK 400495 T3	06-12-1993
			WO 9014334 A1	29-11-1990
			EP 0400495 A1	05-12-1990
			EP 0426816 A1	15-05-1991
			ES 2062174 T3	16-12-1994
			HK 1006453 A1	26-02-1999
			HU 55348 A2	28-05-1991
			HU 9500703 A3	28-12-1995
			IE 63934 B1	28-06-1995
			IL 94466 A	24-01-1995
			JP 2771328 B2	02-07-1998
			JP 4500215 T	16-01-1992
			KR 179661 B1	15-05-1999
			NO 910270 A ,B,	23-01-1991
			NZ 233785 A	23-12-1992
			PT 94160 A ,B	08-01-1991
			RU 2097371 C1	27-11-1997
			US 5236957 A	17-08-1993
			ZA 9003990 A	27-03-1991
			DD 298507 A5	27-02-1992
EP 0400495	A	05-12-1990	AT 96775 T	15-11-1993
			AU 645752 B2	27-01-1994
			AU 5729990 A	18-12-1990
			CA 2033190 A1	26-11-1990
			CN 1047496 A ,B	05-12-1990
			CZ 9002520 A3	12-06-1996
			DE 69004337 D1	09-12-1993
			DE 69004337 T2	24-02-1994
			DK 400495 T3	06-12-1993
			WO 9014334 A1	29-11-1990
			EP 0400495 A1	05-12-1990
			EP 0426816 A1	15-05-1991
			ES 2062174 T3	16-12-1994
			HK 1006453 A1	26-02-1999
			HU 55348 A2	28-05-1991
			HU 9500703 A3	28-12-1995
			IE 63934 B1	28-06-1995
			IL 94466 A	24-01-1995
			JP 2771328 B2	02-07-1998
			JP 4500215 T	16-01-1992
			KR 179661 B1	15-05-1999
			NO 910270 A ,B,	23-01-1991
			NZ 233785 A	23-12-1992
			PT 94160 A ,B	08-01-1991
			RU 2097371 C1	27-11-1997
			US 5391577 A	21-02-1995
			US 5502079 A	26-03-1996
			US 5236957 A	17-08-1993

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/001408

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0400495	A	ZA 9003990 A DD 298507 A5	27-03-1991 27-02-1992
US 5945454	A	31-08-1999	
		AT 202078 T	15-06-2001
		AU 711309 B2	07-10-1999
		AU 6418796 A	26-02-1997
		BR 9609849 A	16-03-1999
		DE 69613377 D1	19-07-2001
		DE 69613377 T2	20-09-2001
		DK 842143 T3	23-07-2001
		EA 1322 B1	26-02-2001
		EP 0842143 A1	20-05-1998
		GR 3036559 T3	31-12-2001
		IL 122705 A	28-01-2001
		JP 2000500732 T	25-01-2000
		NO 980290 A	22-01-1998
		NZ 313185 A	26-05-2000
		PL 324639 A1	08-06-1998
		SI 842143 T1	31-08-2001
		CA 2226894 A1	13-02-1997
		CN 1192199 A ,B	02-09-1998
		WO 9705102 A1	13-02-1997
		ES 2159749 T3	16-10-2001
		HU 9900351 A2	28-06-1999
		PT 842143 T	30-10-2001
		ZA 9605998 A	31-01-1997